

L 13675-63

ACCESSION NR: AP3003851

of the satellite. In the latter type the input grid was swept with a dual-polarity sawtooth voltage of 2-sec duration. Both trap types used suppressor grids next to the collectors to minimize photo- and secondary-emission effects. The collector current registered in the traps could be stored and later interrogated at rates up to 12 times a sec when the satellite was in range of Soviet tracking stations. Sample graphs for several orbits are given which show the variation in total positive ion density as a function of satellite altitude based on data from the planar traps. The graphs verify the general decrease in positive ion density with altitude found by earlier U.S. and Soviet satellites, but reveal a significantly higher dropoff rate above the altitude of maximum ion density. This is confirmed by data from the spherical traps, in which the slope of the volt-ampere characteristic was used in conjunction with mass spectrographs to relate ion concentration to respective mass number. By assuming that only O^+ and He^+ need be considered, the total ion concentration at any orbital altitude was thus divided between these two, showing O^+ dominating at lower levels (≈ 520 km) and giving way to He^+ at increased altitudes (≈ 620 km). The sharp dropoff in density as well as the appearance of dominant He^+ at lower altitudes than heretofore noted suggest that the ion transfer region was significantly lower at the time of the Kosmos flight than in the 1958-1960 period,

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apparently as a result of reduced solar activity in 1962. "The authors express their gratitude to G. N. Zlotin and I. D. Dmitriev for their substantial aid in processing the results of the experiments." The article was presented by Academician A. L. Mints on 28 Feb. 1963. Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: none

SUBMITTED: 14Feb62

DATE ACQ: 15Aug63

ENCL: 00

SUB CODE: AS

NO REF SOV: 007

OTHER: 006

Card 3/3

ACCESSION NR: AP4016061

P/0048/63/000/004/0002/0004

AUTHOR: Gringauz, K. I.; Gerozhankin, B. N.; Shutts, N. M.; Gdalewicz, G. L.

TITLE: Some experiments carried out aboard the satellite "Cosmos-2"

SOURCE: Astronautyka, no. 4, 1963, 2-4

TOPIC TAGS: ionospheric satellite measurement, solar ultraviolet radiation measurement, photoelectric current measurement, ionospheric research, positive ion measurement, photoelectron emitter, artificial earth satellite instrumentation, retarding potential

ABSTRACT: The article gives additional results of experiments carried out aboard "Cosmos-2" (launched 6 April 1962), involving measurements of the density of positive ions surrounding the satellite. The results of these measurements provide additional support for the hypothesis that the structure of the ionosphere has undergone considerable change since the period of maximum solar activity, probably owing to the cooling of the upper atmosphere, which caused a drop of the heavy constituents in the ionosphere. In addition, the article describes another experiment, designed to investigate the electric currents induced in emitters of photoelectrons by solar ultraviolet radiation. An analysis of the photoelectric currents

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of the emitters at various altitudes and retarding potentials permitted an evaluation of the absorption of solar ultraviolet radiation in the ionosphere. Orig. art. has: 7 figures.

ASSOCIATION: Akademia Nauk ZSRR (Academy of Sciences SSSR)

SUBMITTED: 00

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: PH, GE

NO REF SOV: 002

OTHER: 005

Card 2/2

SHUTTSE, V.

Investigation of the isotopic composition of boron. Zhur.eksp. 1
fiz.29 no.4:486-489 O '55. (MLRA 4:1)
(Boron--Isotopes)

Country : USSR
Category: Forestry. Forest Cultures.

Abs Jour: RZhBiol., No 12, 1958, No 53487

Author : Shut'yayev, A. M.
Inst : Central Chernozem State Preserve
Title : The Effect of the Size of the Acorns on the Growth of Seedlings

Orig Pub: Tr. Tsentr.-Chernozem gos zapovedn., 1957, vyp. 4, 58-72

Abstract: The experiment was conducted at the Central-Chernozem State Preserve (near Kursk) on thick chernozems. The acorns were divided into 5 categories according to size (a table of the indicators is given), and were then seeded on different sections. A direct relationship was established between the weight of the acorns.

Card : 1/2

K-32

SHUTYAYEV, A.M.

Materials on the biology and ecology of the western cockchafer
(*Melolontha melolontha*) under conditions prevailing in the Central
Black Earth Preserve [with summary in English]. Zool. zhur. 37
no.11:1659-1667 N '58. (MIRA 11:12)

1. Tsentral'no-Chernozemnyy gosudarstvennyy zapovednik (Kurskaya
oblast').

(Central Black Earth Preserve--Cockchafers)

SHUTYAYEV, A.M.

Spreading of the cockchafer *Melolontha melolontha* L. in relation to the nature of the vegetation. Zool.shur. 39 no.2: 214-221 F '60. (MIRA 13:6)

1. Central Chernosem State Preservation, Kursk.
(Kursk Province—Cockchafers)

SHUTYAYEV, A.M.

Anatomical characteristics of leaves in early and late forms of oak
of different geographical origin. Bot.zhur. 45 no.2:279-283
F '60. (MIRA 13:6)

1. TSentral'no-Chernozemnyy goszapovednik im. prof. V.V.Alekhina,
Kurskaya oblast'.
(Oak) (Leaves--Anatomy)

SHUTYAYEV, A.M.

Transpiration characteristics of the various climatic types
of English oak. Fiziol. rast. 11 no.5:906-911 S-O '64.
(MIRA 17:10)

1. Kafedra lesovodstva Voronezhskogo lesotekhnicheskogo
instituta.

L 07897-67 ENT(1) JK
ACC NR: AP6004839

SOURCE CODE: UR/0359/65/000/004/0021/0023

(A)

14

AUTHOR: Shut'yayev, A. M. (Aspirant)

ORG: Voronezh Forest Engineering Institute (Voronezhskiy lesotekhnicheskiy institut)

TITLE: Degree of fungus disease damage in different acorn types

SOURCE: IVUZ. Lesnoy zhurnal, no. 4, 1965, 21-23

TOPIC TAGS: forestry, fungus, plant disease

ABSTRACT: The distribution of three fungus species most harmful to acorns (*Sclerotinia pseudotuberosa* Rhem., *Phomopsis quercella* Dcd. and *Penicillium* Link.) were investigated in 43 types of acorns gathered in different oblasts from 1954 to 1957. The 43 types of acorns represented 35 species of early flowering oaks and 8 species of late flowering oaks. All acorns were stored under the same conditions and following winter storage were cut open for examination. *Sclerotinia pseudotuberosa* Rhem. causing mummification of acorns was found in 55% of the acorn samples. The degree of infection of both early and late flowering oaks increases from a steppe zone to a forest zone. Moisture increases the incidence of the disease in a given area. *Phomopsis quercella* Dcd. causing a white mold was found in 83% of the acorn samples with incidence highest in forest zones followed by steppe and forest-steppe zones. This fungus tends to appear more frequently in acorns of late flowering oaks compared

UDC: 634.4:/634.0.232.31:674.031.232.264.27

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ACC NR: AP6004839

to early flowering oaks. *Penicillium* Link. causing a green mold was found in all the acorn samples, with acorns of early flowering oaks more susceptible than acorns of late flowering oaks. *Penicillium* Link. develops more favorably under dry conditions. Acorns from different oblasts should be gathered from the same oak areas over a period of years in future phytopathologic studies to take into account weather conditions and crop variations. Orig. art. has: none.

SUB CODE: 02/ SUBM DATE: 08May64/ ORIG REF: 008

Cord 2/2

SHIFRIN, I.A.; SHUTYAYEV, N.A.; LAVRINENKO, S.P.; SHIRONIN, L.I.

Outbreak of Pomona type anicteric leptospirosis preceded by
Q-fever. Med. zhur. Uzb. no.5:76-78 My '60. (MIRA 15:3)
(UZBEKISTAN—LEPTOSPIROSIS)
(Q FEVER)

AKHMEDRABAYEV, M.Kh.; ARIFDZHANOV, K.A.; BELOUSOV, N.A.; BELYAKOV, S.P.;
ZOTOV, V.G.; ISAYEVA, Z.D.; MAKHMUDOV, I.A.; ISHCHEKNO, F.S.;
KRASIL'NIKOV, Ya.A.; NIKOL'SKIY, I.P.; NETSETSKIY, A.M.;
PERGAT, F.F.; PAVLOVSKAYA, M.D.; SAMSONOV, L.S.; POLIZHAYEV,
A.I.; SMIRNOV, F.Ye.; SABININ, M.N.; SHUTYAYEV, N.A.; CHIZHIK,
V.I.; KARPENKO, P.M.; IMEROV, A.I.

Mikhail Aleksandrovich Nenetskii; obituary. Veterinariia 37
no.10:94 0 '60. (MIRA 15:4)
(Nenetskii, Mikhail Aleksandrovich, 1899-1960)

NOSKOV, B.A., kand.tekhn.nauk; MAKARENKO, S.F., inzh.; SHUT'YEV, Yu.S.,
inzh.

Effect of the nitrogen blast on the structure and properties of
cast iron. Mashinostroenie no.4:40-43 J1-Ag '63. (MIRA 17:2)

1. Khar'kovskiy politekhnicheskii institut (for Noskov). 2. Lu-
ganskiy vecherniy mashinostroitel'nyy institut (for Makarenko,
Shut'yev).

VOYTEKOVICH, V.I., kandidat meditsinskikh nauk; SHUTYGIN, D.Ya., kandidat meditsinskikh nauk.

Oxyhemometric investigation in cardiovascular diseases and in Basedow's disease; preliminary report. Terap.arkh. 25 no.5:29-34 (MLRA 7:1)
S-O '53.

1. Iz Instituta fiziologii im. I.P.Pavlova (direktor - akademik K.M.Bykov) Akademii nauk SSSR i iz Voenno-meditsinskoy akademii im.S.M.Kirova.
(Blood--Examination) (Cardiovascular system--Diseases)
(Grave's disease)

SHUTYY, I., inzhener.

New system of installing universal automatic waterers. Sel'. stroi.
11 [i.e. 12] no.2:18 P '57. (MIRA 10:4)

1. Vinnitskaya mashinno-traktornaya stantsiya, Vinnitskoy oblasti.
(Farm equipment)

SHMULENSEN, L.; SHUTYY, I.

Simple method for an automatic watering of cows. Sel'. stroi. 12
no.8:21-22 Ag '57. (MLRA 10:9)

1. Starshiy inzhener Vinnitskogo ob'astnogo upravleniya sel'skogo
khozyaystva (for Shmulenson). 2. Sta-shiy mekhanizator po mekha-
nizatsii trudoyemnykh rabot v zhivotnovodstve Vinnitskoy mashinno-
traktornoy stantsii (for Shutyy).
(Cattle--Watering)

SHUTYY, I., inzh.

Regulations for open pit miners. Bezop.truda v prom. 2 no.5:35 My '58.
(MIRA 11:4)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdela tresta prompredpri-
yatiy Ministerstva avtomobil'nogo transporta i shosseynykh dorog USSR.
(Mining engineering--Safety measures)

SHUTYY, I.I., inzh.

Making working conditions in quarries safer. Bezop.truda v
prom. 3 no.12:18 D '59. (MIRA 13:4)
(Quarries and quarrying--Safety measures)

SHUTYY, I., inzh.

Using mobile boring and blasting stations in highway construction. Avt.dor. 23 no.2:7-8 F '60.

(MIRA 13:5)

(Boring) (Blasting)

MAMLEYEV, A.I.; SHUTYY, L.R.; SMELYANSKIY, V.A., gvardii inzhener-pod-
polkovnik, red.; SLEPISOVA, Ye.N., tekhn.red.

[The ZIS-150 motortruck] Avtomobil' ZIS-150. Moskva, Voen.
izd-vo M-va Vooruzhennykh Sil SSSR, 1950. 215 p. (MIRA 13:4)
(Motortrucks)

SHUTYY, L. R., Engineer

"Investigation of the Operating Process of Shoe Brakes." Sub 25 Jun 51, Military Order of Lenin Academy of Armored and Mechanized Troops of the Sovite Army imeni I. V. Stalin

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

5046777 L.R.
MAMLEYEV, A.I.; SHUTYY, L.R.; KOSOROTOV, B.V., inzhener-polkovnik, re-
daktor; MEHERITSEVA, N.P., tekhnicheskiy redaktor.

[The ZIS-150 truck] Avtomobil' ZIS-150. 2-e perer. i dop. izd.
Moskva, Voennoe izd-vo Voenного ministerstva SSSR, 1953. 291 p.
[Microfilm] (MLRA 7:11)
(Motor trucks)

YEGOROV, L.A.; IVANOV, Yu.B.; ROZANOV, V.G.; BUKHARIN, N.A., doktor
tekhnicheskikh nauk, professor, retsenzent; SHUTTY, L.R.,
kandidat tekhnicheskikh nauk; SOKOLOVA, T.F., tekhnicheskii
redaktor.

[Methods of testing automobiles and their mechanisms] Metody
ispytaniia avtomobil'ov i ego mekhanizmov. Moskva, Gos.nauchno-
tekhn.izd-vo mashinostroitel'noi lit-ry no.6[Brakes] Tormoznye
mekhanizmy. 1955. 165 p. (MLBA 8:11)

1. Russia (1923- U.S.S.R.) Ministerstvo avtomobil'nogo traktornogo
i sel'skokhozyaystvennogo mashinostroyeniya.
(Brakes--Testing)

KUROV, A.A. [deceased]; KUROV, B.A.; SHUTYY, L.R., kandidat tekhnicheskikh nauk; retsenzent; CHAMOV, A.H., inzhener, redaktor; PONOMAREVA, K.A., inzhener, redaktor; TIKHONOV, A.Ya., tekhnicheskiiy redaktor

[The automobile] Avtomobil'. Izd. 2-e, isprav. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1955. 608 p.
(Automobiles) (MLPA 8:6)

ANDREYEV, A.B.; ANTONOV, A.I.; ARAPOV, P.P.; BARMASH, A.I.; BEDNYAKOVA,
A.B.; BENIN, G.S.; BERESNEVICH, V.V.; BERNSTEIN, S.A.; BITUTSKOV,
V.I.; BLYUMENBERG, V.V.; BOMCH-BRUYEVICH, M.D.; BORMOTOV, A.D.;
BULGAKOV, N.I.; VEKSLER, B.A.; GAVRILENKO, I.V.; GENDLER, Ye.S.,
[deceased]; GERLIVANOV, N.A., [deceased]; GIBSHMAN, Ye.Ye.;
GOLDOVSKIY, Ye.M.; GORBUNOV, P.P.; GORYALNOV, F.A.; GRIMBERG, B.G.;
GRYUNER, V.S.; DANOVSIIY, N.F.; DZEVUL'SKIY, V.M., [deceased];
DREMAYLO, P.G.; DYBETS, S.G.; D'YACHENKO, P.F.; DYURBAUM, N.S.,
[deceased]; YEGORCHENKO, B.F. [deceased]; YEL'YASHKEVICH, S.A.;
ZHMURNOV, L.P.; ZAVEL'SKIY, A.S.; ZAVEL'SKIY, P.S.; IVANOVSKIY,
S.R.; ITKIN, I.M.; KAZHDAN, A.Ya.; KAZHINSKIY, B.B.; KAPLINSKIY, S.V.;
KASATKIN, F.S.; KATSAUROV, I.M.; KITAYGORODSKIY, I.I.; KOLESNIKOV,
I.F.; KOLOSOV, V.A.; KOMAROV, N.S.; KOTOV, B.I.; LINDE, V.V.;
LEBEDEV, H.V.; LEVITSKIY, N.I.; LOKSHIN, Ya.Yu.; LUTTSAU, V.K.;
MANNERBERGER, A.A.; MIKHAYLOV, V.A.; MIKHAYLOV, N.M.; MURAV'YEV, I.M.;
NYDEL'MAN, G.R.; PAVLYSHKOV, L.S.; POLUYANOV, V.A.; POLYAKOV, Ye.S.;
POPOV, V.V.; POPOV, N.I.; RAKHLIN, I.Ye., RZHEVSKIY, V.V.; ROZENBERG,
G.V.; ROZENTRETER, B.A.; ROKOTYAN, Ye.S.; RUKAVISHNIKOV, V.I.;
RUTOVSKIY, B.M. [deceased]; RYVKIN, P.M.; SMIRNOV, A.P.; STEPANOV, G.Yu,
STEPANOV, Yu.A.; TARASOV, L.Ya.; TOKAREV, L.I.; USPASSKIY, P.P.;
FEDOROV, A.V.; FERRE, N.R.; FRENKEL', N.Z.; KHEYFTS, S.Ya.; KHLOPIN,
M.I.; KHODOT, V.V.; SHAMSHUR, V.I.; SHAPIRO, A.Ye.; SHATSOV, M.I.;
SHISHKINA, N.N.; SHOR, E.R.; SHPICHENNETSKIY, Ye.S.; SHPRINK, B.B.;
SHTERLING, S.Z.; SHUTTY, L.R.; SHUKHGAL'TER, L. Ya.; ERVAYS, A.V.;

(Continued on next card)

ANDREYEV, A.B. (continued) Card 2.

YAKOVLEV, A.V.; ANDREYEV, Ye.S., retsensent, redaktor; BERKIN-
 GYM, B.M., retsensent, redaktor; BERMAN, L.D., retsensent, redaktor;
 BOLTINSKIY, V.N., retsensent, redaktor; BONCH-BRUYEVICH, V.L.,
 retsensent, redaktor; VELLER, M.A., retsensent, redaktor; VINOGRADOV,
 A.V., retsensent, redaktor; GUDTSOV, N.T., retsensent, redaktor;
 DEGTYAREV, I.L., retsensent, redaktor; DEM'YANYUK, F.S., retsensent;
 redaktor; DOBROSMYSLOV, I.N., retsensent, redaktor; YELANCHIK, G.M.
 retsensent, redaktor; ZHEMOCHKIN, D.N., retsensent, redaktor;
 SHURAVCHENKO, A.N., retsensent, redaktor; ZLODEYEV, G.A., retsensent,
 redaktor; KAPLUNOV, R.P., retsensent, redaktor; KUSAKOV, M.M.,
 retsensent, redaktor; LEVINSON, L.Ye., [deceased] retsensent, redaktor;
 VALOV, N.N., retsensent, redaktor; MARKUS, V.A. retsensent, redaktor;
 METELITSYN, I.I., retsensent, redaktor; MIKHAYLOV, S.M., retsensent;
 redaktor; OLIVETSKIY, B.A., retsensent, redaktor; PAVLOV, B.A.,
 retsensent, redaktor; PANYUKOV, M.P., retsensent, redaktor; PLAKSIN,
 I.N., retsensent, redaktor; RAKOV, K.A. retsensent, redaktor;
 RZHAVINSKIY, V.V., retsensent, redaktor; RINBERG, A.M., retsensent;
 redaktor; ROGOVIN, N. Ye., retsensent, redaktor; HUDENKO, K.G.,
 retsensent, redaktor; RUTOVSKIY, B.N., [deceased] retsensent,
 redaktor; RYZHOV, P.A., retsensent, redaktor; SANDOMIRSKIY, V.B.,
 retsensent, redaktor; SKRAMTAYEV, B.G., retsensent, redaktor;
 SOKOV, V.S., retsensent, redaktor; SOKOLOV, N.S., retsensent,
 redaktor; SPIVAKOVSKIY, A.O., retsensent, redaktor; STRAMENTOV, A.Ye.,
 retsensent, redaktor; STRELETSKIY, N.S., retsensent, redaktor;
 (Continued on next card)

ANDREYEV, A.V., (continued) Card 3.

TRET'YAKOV, A.P., retsenzent, redaktor; FAYERMAN, Ye.M., retsenzent, redaktor; KHACHATYROV, T.S., retsenzent, redaktor; CHERNOV, H.V., retsenzent, redaktor; SHERGIN, A.P., retsenzent, redaktor; SHKSTO-PAL, V.M., retsenzent, redaktor; SHKSHKO, Ye.F., retsenzent, redaktor; SHCHAPOV, N.M., retsenzent, redaktor; YAKOBSON, M.O., retsenzent, redaktor; STEPANOV, Yu.A., Professor, redaktor; DEM'YANYUK, P.S., professor, redaktor; ZNAMENSKIY, A.A., inzhener, redaktor; PLAKSIN, I.N., redaktor; RUTOVSKIY, B.N. [deceased] doktor khimicheskikh nauk, professor, redaktor; SHUKHGAL'TER, L. Ya. kandidat tekhnicheskikh nauk, dotsent, redaktor; BRESTINA, B.S., redaktor; ZNAMENSKIY, A.A., redaktor.

(Continued on next card)

ANDREYEV, A.V. (continued) Card 4.

[Concise polytechnical dictionary] Kratkii politekhnicheskii slovar'. Redaktsionnyi sovet; IU.A.Stepanov i dr. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1955. 1136 p. (MLRA 8:12)

1. Chlen-korrespondent AN SSSR (for Plaksin)
(Technology--Dictionaries)

ZOTOV, Boris Sergeyevich; IL'IN, Nikolay Mikhaylovich; SHUTYY, L.P.,
redaktor; KOGAN, F.L., tekhnicheskiy redaktor

[Electric equipment of automobiles and tractors] Elektrooborudovanie
avtomobilei i traktorov. Moskva, Nauchno-tekhn. izd-vo avtotransp.
lit-ry, 1956. 254 p. (MLRA 9:10)
(Automobiles--Electric equipment)
(Tractors--Electric equipment)

SHUTYY, LEONID RUBINOVICH
MAMLEYEV, Aleksey Ivanovich; SHUTYY, Leonid Rubinovich; PESTA, G.A.,
inzhener, retsentsent; GERMAN, N.Ye., inzhener, redaktor; ZARUBIN,
A.G., redaktor; MODEL', B.I., tekhnicheskij redaktor

[ZIL-150 automobile] Avtomobil' ZIL-150. Perer. i dop.izd. Moskva.
Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1956. 299 p.
(Motortrucks) (MLRA 10:7)

YASINOVSKIY, M.A., zasluzhennyy deyatel' nauki, professor (Odessa); SAVEL'YEV, I.A. (Odessa); NAUMOV, F.G. (Odessa); FINGER, O.A., (Odessa); SHUTYY, M.S. (Odessa)

Application of antirheumatic drugs in prevention of exacerbations of rheumatism. Klin.med. 34 no.6:31-40 Je '56. (MLRA 9:10)

1. Iz gospiatal'noy terapevticheskoy kliniki (zav. zasluzhennyy deyatel' nauki prof. M.A.Yasinovskiy) Odesskogo meditsinskogo instituta (dir. prof. I.Ya., Deyneka)
(RHEUMATISM, prevention and control, chemother. (Rus))

LIKHANOV, B.N.; KHAUSTOVA, M.N.; YEROKHINA, A.A.; MARKOV, F.G.; SPIZHARSKIY, T.N.; DODIN, A.L.; KHIL'TOVA, V.Ya.; CHEREPININ, L.M.; GROMOV, L.V., kand. geol.-mineral. nauk; SHCHERBACHEV, V.D.; SHUTYY, M.Ye.; NEMCHINOV, V.S., akad., red.; NEKRASOV, N.N., red.; PUSTOVALOV, L.V., red.; ZUBKOV, A.I., kand. ekon. nauk, red.; KAVUN, T.K., red. izd-va; SUSHKOVA, L.A., tekhn. red.

[Natural conditions of Krasnoyarsk Territory] Prirodnye uslovia Krasnoyarskogo kraia. Moskva, Izd-vo Akad. nauk SSSR, 1961. 248 p.

(MIRA 14:7)

1. Krasnoyarskaya kompleksnaya ekspeditsiya. 2. Institut geografii AN SSSR (for Likhanov, Khaustova). 3. Pochvennyy institut im. V.V. Dokuchaeva AN SSSR (for Yerokhina). 4. Nauchno-issledovatel'skiy institut geologii Arktiki Ministerstva geologii i okhrany nedr SSSR (for Markov). 5. Vsesoyuznyy geologicheskii institut Ministerstva geologii i okhrany nedr SSSR (for Spizharskiy, Dodin). 6. Laboratoriya geologii dokembriya AN SSSR (for Khil'tova). 7. Krasnoyarskiy pedagogicheskii institut Ministerstva prosveshcheniya RSFSR (for Cherepnin). 8. Sovet po izucheniyu proizvoditel'nykh sil pri Prezidiume AN SSSR (for Gromov, Likhanov, Khaustova, Yerokhina, Shcherbachev, Shutyy). 9. Chlen-korrespondent AN SSSR (for Nekrasov, Pustovalov)

(Krasnoyarsk Territory--Natural history)

SHULEVICH, YE. YA.

PA 17/49T6

USSR/Chemistry - Ammonia, Formation of Jul 48
Chemistry - Ammonium Nitrate

"Methods for Obtaining Ammonia in the Laboratory,"
Ye. Ya. Shulevich, Chernokholunitskiy Metal
Factory, $\frac{1}{4}$ p

"Zavod Lab" Vol XIV, No 7

Describes method used in own factory for obtaining
ammonia by heating ammonium nitrate and calcined
limestone.

 17/49T6

SHUV, Izrail' Issakovich; VINOGRADOVA, Ye.K., nauchnyy redaktor; MINAYEVA,
T.M., redaktor; DMITRIYeva, M.I., tekhnicheskiy redaktor

[General technology of footgear; a summary] Obshchaya tekhnologiya
obuvi; konspekt. Moskva, Gos.nauchno-tekhn.izd-vo M-va legkoj
promyshl. SSSR, 1957. 129 p. (MLR 10:10)
(Shoe industry)

SHUV, I.I.; IVANOV, N.N., retsenzents; DUKHOVNIY, F.N., red.;
VINOGRADOVA, G.V., tekhn. red.

[General technology of footwear] Obshchaya tekhnologiya obuvi.
Izd.2., perer. i dop. Moskva, Gizlegprom, 1963. 176 p.
(MIRA 16:7)

(Shoe manufacture)

MATYUKHIN, V.A.; SHUV, Sh.I.

Improve working conditions in foundries of machinery manufacturing plants. Bezop. truda v prom. 2 no.1:8-10 Ja '58. (MIRA 11:1)

1.Moskovskiy avtozavod im. Likhacheva.
(Founding--Safety measures)

AUTHOR: Shuv, Sh.I. SOV-117-58-4-19/21

TITLE: Machine for Shaving Floors (Mashina dlya stroganiya polov)

PERIODICAL: Mashinostroitel', 1958, Nr 4, p 45 (USSR)

ABSTRACT: A brief, illustrated description of a machine for planing wooden shop floors, used at the Moscow Automobile Plant iment Likhachev, is given. The simple machine is driven by a 1.7 kw motor and works with a cutter head with 6 common cutters. There is 1 sketch.

1. Floors--Maintenance 2. Cutting tools--Design 3. Industrial plants--Equipment

Card 1/1

SHUV, Sh.I., inzh.

Convenient containers. Mashinostroitel' no.9:29 S '58. (MIRA 11:10)
(Containers)

SHUV. Sh., inzh.

Safety grill for a press. Okhr.truda i sots.strakh. no.1:75
Ja '59. (MIRA 12:2)

(Power presses--Safety appliances)

SHUV, Sh.I.; PADUCHIKH, I.P.

Protective casing for fagoting presses. Mashinostroitel'
no.9:33 S '59. (MIRA 13:2)
(Power presses--Attachments)

S/117/60/000/010/005/012/XX
A033/A133

AUTHOR:

Shuv, Sh.I.

TITLE:

Safety devices on cold punching presses

PERIODICAL:

Mashinostroitel', no. 10, 1960, 12 - 14

TEXT:

The author describes a number of safety devices designed by the staff of the pressing shop of the Moskovskiy avtomobil'nyy zavod im. Likhacheva (Moscow Automobile Plant im. Likhachev), which made it possible to lower the number of industrial accidents during five years (1955 - 1959) by a factor of 3. This was attained by introducing protective gratings, photocell protection, two-button and multi-button switching mechanisms, mechanical ejectors, pneumatic blowers, mechanical arms, dies with grab and automatic feeds, etc. A protective grating of simple design welded of gas pipes is used on large-size presses which is lifted and fences off the working zone when the press slide block is traveling down. Another protective grating used on 80 - 100 ton capacity presses is described by the author. Presses with a short slide block stroke, which makes it impossible to mount protective gratings, are fitted with photoprotection. The working zone of the die is fenced off by light beams emitted by an illuminator

Card 1/3

S/117/60/000/010/005/012/XX
A033/A133

Safety devices on cold punching presses

and directed to a beam receiver. If the beam is interrupted during the working of the press the latter is stopped immediately. To eliminate the dangerous operation of taking out the part from the die working zone a mechanical ejector has been developed. Large-size components or blanks are removed from the presses by vertical mechanical arms. The motion of these arms is interlocked with the press slide block stroke. Apart from these vertical arms, recently a ground-type horizontal arm with built-in belt conveyer has been installed at the plant. Small parts of up to 1 kg weight are removed with the aid of compressed air. The utilization of highly efficient dies with grab feed ensures complete safety of press operations. Thus a 3-m strip is automatically fed to the die equipped with a grab mechanism which conveys the blank from one operation to the other. Multi-button starting mechanisms are widely used on the plant presses, so that both hands of the worker are occupied when he switches on the press. Since the setting of dies in the presses is a labor-consuming and dangerous operation, small throw-over tables have been mounted on many presses. The die is adjusted on them with the aid of a lifting mechanism, then it is pushed onto the press plate, fixed, set and put into operation. To eliminate accidents because of working places encumbered by blanks, components and waste, many presses are equipped with belt conveyers transporting the waste directly to the briquetting presses. Moreover,

Card 2/3

SHUV, Sh.I.

Perfect order in the workshop. Kuz.-shtam. proizv. 3 no.9:46
S '61. (MIRA 14:9)

(Sheet metal work)

SHUV, Sh.I.

Improving working conditions in casting houses. Mashinostroitel'
no.11:35-36 N '61. (MIRA 14:11)
(Foundries--Safety measures)

SHUV, Sh.I.

Measures on labor protection in the forge shop of the Likhachev
Automobile Plant. Kuz.-shtam.proizv. 4 no.2:33 F '62.
(MIRA 15:2)

(Moscow---Automobile industry)
(Forging---Hygienic aspects)

L 36947-66 EWT(1)/FCC GW
ACC NR: AP6019592

SOURCE CODE: UR/0293/66/004/003/0394/0403

AUTHORS: Shalimov, V. P.; Shvachunov, I. N.

ORG: none

TITLE: Charged particle motion study in a dipole magnetic field occurring inside the magnetic field, using the Stormer method. 2

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 3, 1966, 394-403

TOPIC TAGS: magnetic field, dipole, particle trajectory, magnetic trap, magnetosphere

ABSTRACT: The results of Part I (V. P. Shalimov and I. N. Shvachunov. Kosmich. issled., 4. No. 2, 208, 1966) are used to study charged particle orbits emanating from the sun and entering the G-zone of the terrestrial magnetosphere. Inside this region the magnetic field potential is approximated by the sum of a dipole field and a homogeneous field, or

$$U = U_0 + U_1 = -\frac{M_0}{r^2} \sin \varphi - \frac{M_1}{r_0^3} r \sin \varphi.$$

Using Equation 15 of Part I, the various boundaries delineating the forbidden and allowed zones for particle trajectories are evaluated. First, the case of periodic trajectories is considered, corresponding to proton energies $E_p \geq 730$ Mev at $r_0 = 10a$ and $E_p \geq 2.9$ Bev at $r_0 = 6a$ (a = earth's radius, and r_0 = distance to the magnetosphere).

Card 1/2

UDC: 550.385.41

L 36947-66

ACC NR: AP6019592

boundary along the earth-sun line). The permitted or forbidden zones are calculated for various values of α

$$\alpha = \frac{M_1}{2M_0} r_0^{-3} = \frac{0,66}{r_0^3}$$

and γ_1 , and the results are shown graphically. Next, the trajectories are considered for $\alpha > 0.1924$. Similar permitted and forbidden zones are calculated, and the penetration depth is estimated for these particles inside the G-zone. It is shown that decreasing the particle energy decreases its penetration depth inside the G-zone. The threshold energy depends on the ratio of the homogeneous magnetic field strength to the magnetic dipole moment, as well as on the distance up to the magnetosphere boundary. The authors thank G. A. Skuridin and V. D. Pletnev for evaluating the results, A. I. Yershovich for his valuable remarks, and L. A. Kazenov for his help in preparing the material and formulating the study. Orig. art. has: 8 figures and 5 formulas. [04]

SUB CODE: 20/04/ SUBM DATE: 06Aug65/ ORIG REF: 005/ OTH REF: 005/ ATD PRESS: 5039

Card 2/2 III

SHIMAZU, M. I.. Japanese medical journal. med. j. jpn.

Diagnosis and therapy of cervical cancer. Akush. ginek. (Seifu)
3 no. 1-12 1-4

001-1-0 L-0(0)/BAP(1)/ETI 10P(0) JD

ACC NR: AP6030632

SOURCE CODE: UR/0413/66/000/016/0129/0129

36
B

INVENTOR: Izmaylov, A. V. ; Shuvakhina, L. A.

ORG: none

TITLE: Method of chemical deposition of nickel-phosphorus alloys. Class 48,
No. 185178 18 27 27

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966,
129

TOPIC TAGS: nickel alloy, phosphorus alloy, nickel phosphorus alloy, chemical
deposition

ABSTRACT: An Author Certificate has been issued for a method of chemical
deposition of nickel-phosphorus alloys from a sulfate solution. To obtain a firm
cohesion of the coating with such metals as lead, ²⁷tin, ²⁷magnesium, zinc, ²⁷cadmium,
and antimony, the process is carried out in a solution of the following composition
(in g/l): 25—35 nickel sulfate, 15—20 sodium hypophosphate, 50—75 diethanola-
mine, and 25—30 ammonium fluoride at temperatures of 85—95C and pH of 8.5—
9.5. [Translation] [NT]

SUB CODE: 07/ SUBM DATE: 04Feb64/

Card 1/1 14

UDC: 621.793.3:669.248'779

SHUVAL, G.M.

High-temperature gas carburizing of steel. G. M. Shuval, I. S. Lupakov, and I. A. Fel'dman. *Metallurgiya Obrabotka Metallov* 1956, No. 6, 48-52 (Butcher translation No. 3806).—A pot-type, muffle-less elec. furnace 700 mm. in diam. and 1000 mm. deep was used with lignine as the carburizer. The av. gas compns. during carburizing at 930, 970, 1000, and 1050° were, resp.: CO, 0.7, 0.6, 0.5, 0.3%; O, 0.5, 0.3, 0.2, 0.0; CO₂, 34.0, 34.6, 36.2, 40.2; H₂, 45.0, 46.0, 47.5, 48.0; CH₄, 2.9, 2.0, 1.5, 0.9; balance N. Six types of steel were studied and they behaved similarly. The total depth of case was plotted against time of carburizing for times of 1-8 hrs. and for 4 temps. After 1 and 8 hrs. the depths were: 930°, 0.5, 1.7 mm.; 970°, 0.7, 2.0; 1000°, 0.8, 2.4; 1050°, 1.0, 2.8. C-penetration curves were detd. for specimens in which a depth of 1.8 mm. had been produced at 930° and at 1050°. The surface C content was about 1.8% in the 930° specimen and only 1.6 in the 1050° specimen. The concn. gradient was steeper in the 930° specimen. These differences were due to a slower rate of surface absorption relative to diffusion rate at the higher temp. The same grain size was obtained in both the case and the core of specimens carburized to a depth of 2.3 mm. at temps. of 930-1050°. The mech. properties were also the same. A. G. Guy

UZHUK, Georgiy Viktorovich, prof., doktor tekhn. nauk; ~~SHUVAL, G.M., inzh.~~,
nauchnyy red.; KONTSEVAYA, E.M., red.; GOROKHOV, Yu.N., tekhn.
red.

[Strength of metals in machinery manufacture] Prochnost' metallov v
mashinostroenii. Moskva, Vses. uchebno-pedagog. izd-vo Trudreserv-
izdat, 1958. 73 p. (MIRA 11:8)

(Metals)

BUNSH, R.F., red.; SAMARIN, A.M., red.; VINICHENKO, Ye.K., red.;
SHUVAL, G.M., red.; BELEVA, M.A., tekhn.red.

[Vacuum metallurgy] Vakuunnaia metallurgiya; sbornik dokladov.
Pod red. R.F.Bunsha. Moskva, Izd-vo inostr.lit-ry, 1959. 305 p.
Translated from the English. (MIRA 13:8)

1. Chlen-korrespondent AN SSSR (for Samarin).
(Vacuum metallurgy)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,
p 173 (USSR) 15-57-7-9930

AUTHOR: Shuval-Sergeyev, N. M.

TITLE: Influence of the Vertical Border Between Two Media
on the Results of Determining ρ_k in Dipolar Depth
Measurement (Vliyaniye vertikal'noy granitsy razdela
dvukh sred na rezul'taty izmereniy ρ_k pri dipol'nykh
zondirovaniyakh)

PERIODICAL: Sb. nauch. tr. Kazakhsk. gorno-metallurg. in-t,
1956, Nr 14, pp 203-218

ABSTRACT: The article presents graphs showing the influence
of a vertical border between two media on the
results of depth measuring with the dipole-axial
and dipole-equatorial apparatus; it also contains
formulas for calculating these results.

Card 1/1

SHUVAL - SERGEYEV, N.M.

132-1-12/15

AUTHORS: Artamonov, L.V., Frantov, G.S., and Shuval-Sergeyev, N.M.

TITLE: New Methods of Electric Prospecting (O novykh metodakh elektrorazvedki)

PERIODICAL: Razvedka i Okhrana Nedr, 1958, # 1, pp 53-57 (USSR)

ABSTRACT: The efficiency of electric prospecting operations was considerably increased by introducing the method of aerial electric prospecting. Valuable data for numerous districts were obtained by using aerial radiometric surveying methods. At the present time, aerial prospecting is being conducted by a number of USSR organizations. Besides the "VITR", the following institutions took part in this work: Institute for Mechanical Engineering and Automatics of the Ukrainian SSR Academy of Sciences (Institut mashinovedeniya i automatiki), the Moscow State University and the Institute for Soil Physics of the USSR Academy of Sciences (Institut fiziki zemli). At present, there are four different methods of aerial prospecting, each of which has its own characteristics. 1) The study of an electromagnetic field of an above surface source in motion by establishing a directly contact with the earth. 2) The method of measuring its own electromagnetic field from the air, together with the receiving-measuring device.

Card 1/2

New Methods of Electric Prospecting

132-1-12/15

3) The measuring of the intensity of the magnetic field of the broadcasting radio station in relation to the geological formation of the district. 4) The measuring of changes of resistance by radiation of electric and magnetic antenna, caused by the characteristics of the geological structure of the district.

There are five figures.

ASSOCIATION: V I T R

AVAILABLE: ~~Library~~ of Congress

Card 2/2

SHUVAL-SERGEYEV, N.M.; FRANTOV, G.S.

Experimental aerial surveys by the endless cable method. Sov.
geol. 2 no.1:112-120 Ja '59. (MIRA 12:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i
tekhniki razvedki.
(Aeronautics in geology)

FRANTOV, G.S.; SHUVAL-SERGEYEV, N.M.

Using the infinitely long cable method in aerial electric
surveying. Razved. i okh. nedr 26 no. 1:37-42 Ja '60.
(MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i
tekhniki razvedki.
(Aeronautics in geology) (Electric prospecting)
(Sulfides)

ARTAMONOV, L.V.; SHUVAL-SERGEYEV, N.M.

Aerial-electric surveying in geologic mapping. Sov.geol.
4 no.2:125-132 F '61. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i
tekhniki razvedki.
(Geology--Aeronautics in surveying)

ARTAMONOV, L.V.; SHUVAL-SERGEYEV, N.M.

Dipole induction profiling in aeroelectric prospecting. Trudy
(MIRA 15:7)
VITR no.3:109-117 '61.
(Electric prospecting)

AUTHORS: Frantov, G. S. and Shuval-Sergeyev, N. M. S/169/63/000/002/115/127
D263/D307

TITLE: Aeroelectric exploration on the territory of Southern Ural and Kazakhstan

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 2, 1963, 32, abstract 2D193 (Byul. Nauchno-tekh. inform. M-vo geol. i okhrany nedr SSSR, 1962, no. 1 (35), 85-88)

TEXT: The main results are given of an aeroelectric survey carried out by the method of infinitely long cable, on the territories of Southern Ural and Western Kazakhstan. To investigate the possibilities of this method in S. Ural, the authors chose a Cu pyritic deposit within the copper-bearing belt of effusive rocks. The resistance of enclosing rocks varied from 100 - 400 to a few thousand ohms. The Cu pyritic deposits had the form of lens of massive or vein-disseminated ores, containing pyrite, chalcopyrite, sphalerite, bornite, and galenite. The massive ores were well conducting and non-magnetic. Above the fundamental rocks there was a low-re-

Card 1/2

S/169/63/000/002/115/127
D263/D307

Aeroelectric exploration on ...

sistance covering layer. The 20 km long cable was extended parallel to the structures, 7 km to the West of the deposit. The receiving and measuring apparatus was carried on an MI-4 (MI-4) helicopter. The receiver frames were placed in a gondola suspended 20 m below the helicopter. Flight altitude was 50 m; in individual profiles measurements were made at various heights. Ground measurements confirmed the results of aereoelectric exploration. Analysis of the materials showed that the infinite cable method yields valuable information both in the search for orebodies and in geological charting. [-Abstracter's note: Complete translation.]

Card 2/2

L.12060-65

ENT(1)

Po-4/P1-4

ESD(t)/Pa-4

MLK/GN

ACCESSION NR: AT4047268

S/0000/64/000/000/0131/0133

AUTHOR: Shuval-Sergeyev, N. M.

TITLE: Present status of aerial electrical prospecting in the USSR (summaries)

SOURCE: Mezhevuzovskaya nauchnaya konferentsiya po induktivnyim metodam rudnoy geofiziki. Moscow, 1961. Trudy*, Moscow, Izd-vo Nedra, 1964, 131-133

TOPIC TAGS: aerial electrical prospecting, aerial prospecting, geological prospecting, geology, infinitely long cable method, rotating magnetic field method, radio signal method, induced electromagnetic field method

ABSTRACT: At present, Soviet specialists have developed four methods of aerial electrical prospecting: the infinitely long grounded cable, the induction method (using one aircraft), the rotating magnetic field method and a method using the radio signal field of broadcasting stations. The first of these is the most widely used; apparatus for use with this method soon will be in standard production. The other methods remain in the experimental stage. All four methods are described in the article. The work on the infinitely long cable method is being done at the Institut Mashinovedeniya i Avtomatiki AN UkrSSR (Institute of Machine Science and Automation, Academy of Sciences, UkrSSR), the Vsesoyuznyy Nauchno-Issledovatel'skiy Institut Metodiki i Tekhniki Razvedki (All-Union Scientific Research Institute

Card 1/3

L 12060-65
ACCESSION NR: " AT4047268

of Prospecting Methods and Techniques) and the Vsesoyuznyy Nauchno-Issledovatel'skiy Institut Gidrogeologii i Inzhenernoy Geologii (All-Union Scientific Research Institute of Hydrology and Engineering Geology). In this method, the source of the electromagnetic field is a linear cable 15-30 km long, grounded at the ends, along which a current of acoustic frequency is passed. Prospecting by this method is used in exploration for ore bodies and in geological mapping. The method is highly productive. In the method using an induced field it is necessary to use a plane carrying a generating loop through which passes an alternating current of acoustic frequency which induces electric currents in the ground, creating a secondary electromagnetic field. The strength of the secondary field is dependent on the geological structure of the area and by measurements of the secondary field it is possible to obtain data characterizing the area. The method can be used for small-scale geological mapping and exploration for large ore bodies with good conductivity in plains areas and little overburden. The rotating magnetic field technique has a number of advantages over the induction method. The fourth method is based on measurement of the strength of the electromagnetic field of broadcasting stations. The measuring apparatus is carried in an aircraft or helicopter. Field work has been done by this method in the Turkmen SSR in exploration for lenses of fresh ground water, since the strength of the radio station field over lenses of fresh water is considerably less than where there is salt water.

Card 2/3

L 12060-65

ACCESSION NR: AT4047268

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i tekhniki
razvedki (All-Union Scientific Research Institute of Prospecting Methods and
Techniques)

SUBMITTED: 27Feb64

ENCL: 00

SUB CODE: ES

NO REF SOV: 000

OTHER: 000

Card 3/3

SHUVALKIN, V.V.

Determining the thickness of coal by logging in the Kuzntesk
Basin. Geofiz.razv. no.14:125-134 '63. (MIRA 17:3)

STROITEL' NO. 11

BATUTINA, N., inzh.; SHUVALOV, A., inzh.; KIRSANOV, A., inzh.

Large-block construction in Chelyabinsk. Stroitel' no. 11:2-4
N '57. (MIRA 10:12)

(Chelyabinsk--Apartment houses)

KONDAROV, P., inzh.; SHIVALOV, A., inzh.

Dismountable fixing devices for stretching reinforcing wire.
Stroitel' no.6:21 Ja '59. (MIRA 12:9)
(Prestressed concrete)

SHUVALOV, A.F., inzhener.

Imitator of telegraph signals of the ISSh type. Vest.sviazi 16 no.8:
5-8 Ag '56. (MLBA 9:10)

1.Laboratoriya radiosvyazi Moskovskoy direktsii radiosvyazi i radio-
veshchaniya.

(Telegraph, Wireless)

SOV/111-58-2-10/27

AUTHOR: Shuvalov, A.F., Engineer of the Radio Laboratory

TITLE: Audio-Frequency Keyer with Frequency Keying (Tonal'nyy manipulyator s chastotnoy manipulyatsiyey)

PERIODICAL: Vestnik svyazi, 1958, Nr 2, pp 14 - 15 (USSR)

ABSTRACT: The article describes the frequency keying circuit of an LF oscillator without a reactance tube. This circuit may be used for developing new devices in productional communication laboratories. The keyer permits a frequency separation of up to 500-600 cycles. The peculiarity of the keyer is that the generator must work with low capacities in the oscillator circuit, and the distributed capacitance of the choke coil has an essential influence on the generator frequency. There are 2 circuit diagrams and 1 graph.

ASSOCIATION: MDRSV

Card 1/1

SOBOLEVSKIY, Yevgeniy Alekseyevich; USTINOV, Aleksandr Dmitriyevich
[deceased]; SHUVALOV, A.F., otv. red.; NOVIKOVA, Ye.S., red.;
MARKOCH, K.G., tekhn. red.

[Signal distortion in radiotelegraphy] Iskazheniia signalov na
radiotelegrafnykh svyaziakh. Moskva, Gos. izd-vo lit-ry po vop-
rosam svyazi i radio, 1962. 129 p. (MIRA 15:2)
(Radiotelegraph)

SHUVALOV, A.G.

Hard solder: A. G. Shuvalov. U.S.S.R. 105,862, May
26, 1957. A solder having a m.p. up to 250-300° is prepd.
from Zn 32-40, Al 10-14, Cu 6.5-10.5%, rest Cd. M. H.

ay

KHARCHENKO, A.B., inzh.; SHUVALOV, A.I., inzh.

Ammonia plate tubing evaporator. Khol. tekhn. 38 no. 1:17-20 Ja-F
'61. (MIRA 14:4)

1. Moskovskiy zavod "Kompessor".
(Refrigeration and refrigerating machinery)

SHUVALOV, A. I.

"The use of steel press-welded panels for heat exchange apparatus in refrigerating plants."

Report presented at the 11th International Congress of Refrigeration, (IIR), Munich, West Germany, 27 Aug-4 Sep 63.

SHUVaLOV, A.

Fight to utilize hidden potentialities in the economy. Fin. i kred. SSSR
no. 6:33-36 Je '53. (MLRA 6:6)
(Finance)

Shuvalov, A.

783.35
.K7

Finansovyy plan promyshlennogo predpriyatiya (Finance plan for an industrial enterprise,
By) D. Molyakov i A. Shuvalov. Moskva, Gosfinizdat, 1954.
82 p. tables.

SHUVALOV, A.; MOLYAKOV, D.

For the economical expenditure of material and monetary resources.
Fin.SSSR 16 no.1:26-29 Ja '56. (MLRA 9:5)
(Finance)

SHUVALOV, A.; BABAYEV, Yu.; CHUMICHEV, V., naladchik-mekhanik; LOYFERMAN, A.; DVORKIN, M., rabochiy (derevnya Sadovniki, Moskovskoy oblasti)

Innovators of the capital province. Prom.koop. 13 no.10:16-18
0 '59. (MIRA 13:2)

1. Predsedatel' pravleniya arteli "Emal'krasa," derevnya Saburovo, Moskovskoy oblasti (for Shuvalov). 2. Tekhnoruk arteli invalidov im. XXX let Oktyabrya, g. Babushkin, Moskovskoy oblasti (for Babayev). 3. Artel' invalidov "Pobeda," g. Tushino, Moskovskoy oblasti (for Chumichev). 4. Zakroyshchik plastikata sportivnoy arteli, derevnya Sadovniki, Moskovskoy oblasti (for Loyferman).

(Moscow Province--Manufactures--Technological innovations)

LAVROV, Vasil'y Vasil'yevich; KUDRYASHOV, Rafail Aleksandrovich;
SHUVALOV, Aleksandr Mikhaylovich; SUDBOTINA, K., red.;
KONDRAT'YEVA, A., red.; LEEDEV, A., tekhn. red.

[State budget] Gosudarstvennyi biudzheth. Moskva, Gosfinizdat,
1961. 239 p. (MIRA 15:2)

(Budget)

SHUVALOV, A.

Capital investments and expansion of industries of the local
councils. Mest.prom. i khud.promys. 2 no.12:18-19 D '61.
(MIRA 14:12)

1. Nachal'nik upravleniya finansirovaniya mestnogo khozyaystva
Ministerstva finansov RSFSR.
(Russia--Industries)

SOKOLOV, A.G.; FILIPPOV, I.I.; SHUVALOV, A.M., red.; DENISOVA, O.P.,
tekhn.red.

[Financing of city and district administration; a practical
manual] Finansirovanie gorodskogo i raionnogo khoziaistva;
prakticheskoe posobie. Moskva, Gosfinizdat, 1950. 138 p.
(Municipal finance) (MIRA 12:5)

KILARCHENKO, A.B., INIZOV, A.I.

On ammonia evaporator. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.
.auch.i tekh.inform. 17 no.7:49-53 J1 '64. (MIR: 17:10)

9(4)

AUTHORS: Minakova, I.I., Stepanova, N.V., and Shuvalov, A.T. SOV/55-58-4-14/31

TITLE: Investigation of the Synchronization of a Reflex Klystron for a Small Sinusoidal Electro-Motive Force (Issledovaniye sinkhronizatsii otrazhatel'nogo klistrona maloy sinusoidal'noy sily.)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya tekhnicheskii, matematicheskii, fizicheskii, khimicheskii, 1958, Nr 4, pp 129-136 (USSR)

ABSTRACT: The synchronization of a reflex klystron is investigated theoretically and experimentally if there acts a small electro-motive force, the frequency of which approximates the frequency of the free vibrations. It is shown that the appearance of a delay in the neighbouring system, for an action of an outer electro-motive force, leads to several phenomena: Deformation of the amplitude curve and the region of the phase instability; beside the carrying along of the frequency of permanent vibrations by the frequency of the outer force there also appears a "repulsion" of the frequencies. The dependence of the width of the strip of synchronization and the maximal amplitude on the outer force, however, remain linear in a vast interval also for

Card 1/2

Investigation of the Synchronization of a Reflex
Klystron for a Small Sinusoidal Electro-Motive
Force

SOV/55-58-4-14/31

a delay. The theoretical and experimental results agreed very
well. Also results of P.A. Ryazin [Ref 2] are confirmed. A
method of K.F. Teodorovich [Ref 5] is used.
There are 6 figures, and 8 references, 7 of which are Soviet,
and 1 Swiss.

ASSOCIATION: Kafedra kolebaniy (Chair of Oscillations)

SUBMITTED: August 9, 1957

Card 2/2

87998

1.5400

2708

S/135/61/000/CO1/011/018
A006/A001

AUTHORS: Kostyuk, V.A., Candidate of Technical Sciences, Kozlov, Yu.M.,
Shuvalov, A.V., and Gerasimenko, A.V., Engineers

TITLE: Industrial Units for Welding With an Electron Beam

PERIODICAL: Svarochnoye proizvodstvo, 1961, No. 1, pp. 41 - 43

TEXT: The authors developed two special automated units for the welding of several work pieces of the same type without disturbance of the vacuum. 1) the ЭЛУ-1 (ELU-1) unit is intended for the welding with an electron beam of longitudinal and circumferential joints on high-melting and easy oxidizing metal parts. Up to 10 articles of the same type can be welded without disturbance of the vacuum. The unit consists of a working chamber, mechanisms for the fastening and displacement of the work, an electron gun, a vacuum station, a high-voltage power supply, a three-phase interrupter and a gun control desk. The working chamber is placed on a heavy frame; the mechanisms of fastening and displacement are arranged on trolleys and are wheeled out of the chamber during loading and unloading the machine. Figure 2 shows an attachment for the welding of 250 - 1,000 mm sheets which are fastened to the welding table. Round parts are welded on a special mechanism as-

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During the automated setting of the work, assembly of elements to be welded in the vacuum, and rotation during welding. The vacuum station is equipped with 2 fore-vacuum pumps and a high-vacuum unit equipped with a vapor jet pump ensuring a vacuum of not less than $5 \cdot 10^{-5}$ mm Hg within 15 - 20 minutes after the onset of evacuation. An electron beam gun as described by Ye.M. Kozlov in the preceding article is used. It can be displaced vertically by 45 mm and inclined through 30° providing for a horizontal displacement of the beam by 15 mm. The incandescence of the gun cathode is made through a high-voltage cable. The magnetic lens (7-10v) is fed from a stabilized rectifier. The portable gun supply unit includes a high-voltage generator consisting of a transformer and a rectifier (25 kv, 3 kw) and an incandescence transformer (10 v, 30 amp) placed in an oil-filled container. The ЭЛУ-2 (ELU-2) unit, designed under the supervision of Engineer K.A. Lashkov, is intended for welding circular edge joints. Up to 30 parts can be welded without disturbance of the vacuum. The unit consists of a working chamber with an automatic device, an electron gun, a vacuum station, a high-voltage power supply source, a three-phase interrupter and two cabinets for electric equipment. Charging and discharging of the work pieces is made through a hatch in the operational chamber cover. The drive and control of the internal servomechanisms is brought about outside the chamber. Repeated evacuation up to a $5 \cdot 10^{-5}$ mm Hg vacuum is performed

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within 14 - 15 minutes. The unit is equipped with a portable control desk. Tests were made with both of the described machines. On the ELU-2 unit 200 - 210 butt chokes were welded to 2 mm thick aluminum alloy parts within 7 hours. During welding sufficient evacuation of the cavities was obtained, the oxide film was eliminated and the penetration depth was greater than in welding in a gas shield. Welding speed was 25 - 30 m/hr. On the ELU-1 machine various types of weld were produced with 1X1849 (1Kh18N9T) steel, including circumferential, edge and overlap joints; thin walled parts were welded to thick walled ones. Sheets were welded on a copper backing. The speed of welding 1 mm thick sheets at 12 m-amp current in the beam and 22 kv accelerating voltage, was 34 m/hr. The minimum diameter of the electron beam is obtained at a distance of 30 - 40 mm from the focusing lens butt; the vacuum was 5.10^{-5} mm Hg. The joints had a satisfactory quality. The machines are recommended for welding pieces of high-melting and rare metals.

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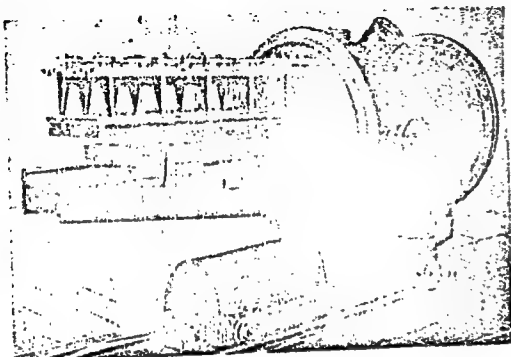


Figure 2:

Attachment for welding sheet material on the
ELU-1 unit.

There are 5 figures and 4 references: 2 Soviet and 2 German.

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ABSTRACT: A description is given of a new ceramic toilet article which was developed at the Katuarov Factory of Acid-resistant Articles. It has three little general-purpose shelves, soap holder, tooth-brush holes and cup holder.
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PRESENTED BY:
SUBMITTED:
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